

RESEARCH AND DEVELOPMENT, NEUCHATEL - QUARTERLY REPORT

DIVISION : PROCESS DEVELOPMENT

SUBJECT TITLE : DALI

PERIOD COVERED : OCTOBER - DECEMBER 1988

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KEYWORDS : dali, rcb/ch, rcb/us, nc, rl-tc, rl-150b,
rl-g, rl-bg, rcb-g

OBJECTIVES

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This project was initiated as a follow-up to the Blend Component Studies. The aim of the project is to establish the correlation between cigarette firmness and OV, CV and OV, in 100% Recon cigarettes, in order to ascertain the specific correction factors for firmness and CV as a function of OV.

STATUS

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The study was completed and the final report issued (1).

SUMMARY OF THE STUDY

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Seven different types of reconstituted tobaccos were evaluated. A total of two batches of each of the Recons was run through the Miniprimary.

Each lot was tested for cut filler sieve size, CV and OV, after drying and exit maker. Cigarettes were equilibrated, weight selected, and re-conditioned in an equilibration cabinet at different relative humidities. Together with these cigarettes, cut filler samples were also equilibrated. Immediately after the second equilibration, cigarette firmness and cut filler CV were tested.

The OV correction factors for firmness and filling power were established and reported as a result of different equilibration conditions of RH.

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<u>Type</u>	<u>Firmness</u>	<u>CV</u>
	<u>Correction factor</u>	<u>Correction factor</u>
	<u>mm / %OV</u>	<u>ml/g . %OV</u>
RL-150B NC	0.30	0.35
RL-B/G	0.28	0.30
RL-TC NC	0.29	0.36
RL/G	0.31	0.35
RCB/US NC	0.29	0.32
RCB/G	0.30	0.29
RCB/CH	0.30	0.22

In general there are large variations in the equilibrium OV results from one sampling point to another and from one batch to another. However, there is a trend to lower equilibrium OV's after maker and to better reproducibility at cigarette level.

REFERENCE

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- (1) Borgognon-D. Reconstituted Tobaccos : correction factors for firmness and CV (Project DALI), Final Report, December 1988

L. R.

DIB/cav/January 10, 1989
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